

In the Claims

Claims 1-35 (Cancelled)

36. (Currently Amended) A sprinkler head suitable for use in forming a radiant heat barrier in the form of droplets of fire fighting fluid in at least a single plane limiting damage to property from fire, the sprinkler head including:

at least one hollow radial arm base for mounting to a dwelling;

a hub operatively connected to the base;

at least one first type of hollow radial arm so that the at least one hollow radial arm may pivot about the hub so as operatively connected to the hub so that the at least one first type of hollow radial arm is configured to spin in a radial plane when in use;

an extension operatively connected to, the or each hollow radial arm, and disposed at an outer end of, and in fluid communication with, the at least one first type of hollow radial arm, the or each extension being disposed at an angle to the at least one first type of radial arm, within the radial plane, and being and at a second angle from the radial arm, towards the base, and disposed at an outer end of, and in fluid communication with the or each respective hollow radial arm; and

a nozzle to allow egress of fire-fighting fluid from the or each at least one extension, and so as to be sprayed therefrom to form the radiant heat barrier in at least the radial plane so that in use, fire-fighting fluid may be sprayed from the nozzle to drench distal parts of the structure.

37. (Currently Amended) A The sprinkler head as defined in claim 36 wherein a base is provided for mounting the hub onto a structure, wherein one or more of the extensions extend at a second angle from the radial arm, towards the base, so that in use, fire fighting fluid may be sprayed from the or each nozzle to drench distal parts of the structure second type of hollow radial arm is provided, which includes an extension operatively connected to, disposed at an outer end of, and in fluid communication with, the second type of hollow radial arm, the extension being disposed at an angle to the second type of radial arm and

wholly within the radial plane so as to form a radiant heat barrier in the form of droplets of fire-fighting fluid in the radial plane.

38. (Currently Amended) A sprinkler head as defined in claim 36 wherein one or more apertures are provided along the ~~or each~~ at least one first type of radial arm ~~or extension~~ thereof to assist with rotation of the ~~or each~~ at least one radial arm about the hub and facilitate the provision of a radiant heat barrier in the form of droplets of fire-fighting fluid in the radial plane.

39. (Currently Amended) A ~~The~~ sprinkler head as defined in claim 3637 wherein one or more apertures are provided along the ~~or each~~ at least one second type of radial arm ~~or extension~~ thereof to enable fire-fighting fluid in use to drench proximal parts of a structure upon which the sprinkler head may be mounted.

40. (Currently Amended) A ~~The~~ sprinkler head as defined in claim 38 wherein the ~~or each~~ one or more aperture is disposed on the ~~or each~~ at least one first type of radial arm so as to discharge fluid tangentially ~~from the or each aperture to the radial plane.~~

41. (Currently Amended) A ~~The~~ sprinkler head as defined in claim 39 wherein the ~~or each~~ one or more aperture is disposed so as to discharge fluid ~~in a direction parallel to the rotation axis of the or each radial arm~~ directly towards the base.

42. (Cancelled)

43. (Currently Amended) A ~~The~~ sprinkler head as defined in claim 36 wherein, in use, the sprinkler head is disposed on a wall of a building so as to provide a radiant-heat barrier which utilizes winds associated with a fire front to force the fire-fighting fluid against a structure upon which the sprinkler head is mounted.

44. (Currently Amended) A-The sprinkler head as defined in claim 3637 wherein, in use, a spray barrier of fire-fighting fluid creates droplets which are forced into adjacent eaves and roof cavities by winds associated with fire, to drench the eaves and cavities into which embers may be~~are~~ forced by the winds.

45. (Currently Amended) A method of inhibiting fires, the method including the steps of:
providing one or more ~~sprinklers~~sprinkler heads according to claim 36;
positioning the ~~or each~~one or more ~~sprinkler heads~~ so as to be mounted in the region of a structure so that when fluid is forced under pressure through the ~~or each~~one or more ~~sprinkler heads~~, a radiant heat barrier of fluid droplets is formed to inhibit the radiant heat energy incident upon the structure.

46. (Currently Amended) The method according to claim 45 wherein a single-dimensional or two-dimensional array of ~~sprinklers~~sprinkler heads is provided adjacent to a building wall, in order to provide an overlap of the radiant heat barrier.

47. (New) An array of sprinkler heads mounted on a building wall or other structural element, each of the sprinkler heads including:

a base for mounting to a dwelling;

a hub connected to the base at least one first type of hollow radial arm operatively connected to the hub so that the at least one first type of hollow radial arm is configured to spin in a radial plane;

an extension operatively connected to, and disposed at an outer end of, and in fluid communication with the at least one first type of hollow radial arm, the extension being disposed at a first angle to the at least one first type of hollow radial arm, within the radial plane, and a second angle from the radial arm, towards the base; and

a nozzle to allow egress of fire-fighting fluid from the at least one extension, and sprayed therefrom so that in use, fire-fighting fluid may be sprayed from the nozzle to drench distal parts of the structure; wherein each sprinkler head is disposed adjacent the eaves of the

building.

48. (New) The array of sprinkler heads in accordance with claim 47 wherein a second type of hollow radial arm is provided, which includes an extension operatively connected to, disposed at an outer end of, and in fluid communication with, the second type of hollow radial arm, the extension being disposed at an angle to the second type of radial arm and wholly within the radial plane so as to form a radiant heat barrier in the form of droplets of fire-fighting fluid in the radial plane.

49. (New) The array of sprinkler heads as defined in claim 47 wherein one or more apertures are provided along the at least one first or second type of radial arm or extension thereof to assist with rotation of the at least one radial arm about the hub.

50. (New) The array of sprinkler heads as defined in claim 48 wherein one or more apertures are provided along the at least one second type of radial arm to enable fire-fighting fluid in use to drench proximal parts of a structure upon which the sprinkler head may be mounted.

51. (New) The array of sprinkler heads as defined in claim 49 wherein the one or more aperture is disposed on the at least one first or second type of radial arm so as to discharge fluid tangentially from the or each aperture.

52. (New) The array of sprinkler heads as defined in claim 50 wherein the one or more aperture is disposed so as to discharge fluid in a direction directly towards the base.

53. (New) The array of sprinkler heads according to claim 50 wherein the aperture is disposed in the extension on an underside thereof.